# Cytometer Baseline Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 6.1.3 |
| Input Device: | Carousel | Date: | 10/21/2015 09:33 AM |
| Tube Loaded Manually: | Yes | | |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | | |

## Setup Beads

Bead Product: CST Setup Beads, Part #: 910723
Lot ID: 51739, Expiration Date: 01/31/2016
Bead Lot Information: Available

## Detector Settings

| Laser | Detector | Parameter | PMTV | New Target Value | Old Target Value | Bright Bead %Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV | Dim Bead Median Channel | Dim Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 620 | 125000 | 125000 | 3.38 | 125434 | 3.36 | 18918 | 17.66 |
| Blue | F | SSC | 527 | 125000 | 125000 | 2.82 | 125831 | 2.46 | 62364 | 1.69 |
| Blue | E | FITC | 539 | 17224 | 17998 | 2.55 | 973 | 9.21 | 104 | 36.24 |
| Blue | D | PE | 532 | 22462 | 23234 | 2.07 | 1012 | 8.52 | 208 | 25.68 |
| Blue | B | PerCP-Cy5-5 | 614 | 63940 | 69571 | 2.86 | 1677 | 13.98 | 202 | 41.75 |
| Blue | A | PE-Cy7 | 673 | 72480 | 77815 | 4.00 | 936 | 26.34 | 67 | 109.92 |
| Red | C | APC | 584 | 63778 | 65936 | 2.66 | 3594 | 8.14 | 335 | 25.74 |
| Red | A | APC-Cy7 | 565 | 97254 | 100669 | 2.73 | 1922 | 7.82 | 119 | 38.73 |
| Violet | B | V450 | 474 | 10730 | 10405 | 3.51 | 667 | 8.42 | 70 | 44.93 |
| Violet | A | V500 | 503 | 42147 | 47250 | 3.10 | 2379 | 5.80 | 156 | 22.44 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Linearity Min Channel | Linearity Max Channel | Slope | Intercept | Electronic Noise Robust SD | Qr | Br |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | N/A | N/A | 0.0040 | 2.6 | N/A | N/A | N/A |
| Blue | F | SSC | N/A | N/A | 7.1987 | -14.5 | N/A | N/A | N/A |
| Blue | E | FITC | 90 | 238482 | 7.3502 | -15.8 | 20.6 | 0.0235 | 142 |
| Blue | D | PE | 50 | 236994 | 7.2680 | -15.5 | 20.7 | 0.1574 | 145 |
| Blue | B | PerCP-Cy5-5 | 128 | 235696 | 7.3614 | -15.7 | 21.5 | 0.0099 | 0 |
| Blue | A | PE-Cy7 | 151 | 235414 | 7.4251 | -16.1 | 20.6 | 0.0135 | 17 |
| Red | C | APC | 91 | 240194 | 7.3643 | -15.6 | 19.2 | 0.0212 | 0 |
| Red | A | APC-Cy7 | 61 | 238549 | 7.3846 | -15.3 | 18.4 | 0.0051 | 1021 |
| Violet | B | V450 | 17 | 239241 | 7.3818 | -15.7 | 12.2 | 0.0428 | 2066 |
| Violet | A | V500 | 43 | 240373 | 7.5631 | -15.8 | 12.7 | 0.0142 | 333 |

## Specifications

Violet Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Blue Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)
Red Laser Primary Channel Bright Bead %Robust CV: 6.00 (Recommended)

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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Spec. (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.64 | 47.70 - 71.54 | N/A | N/A | -31.76 | -31.58 | 0.72 |
| Blue | 20.48 | 16.35 - 24.53 | 1.26 | 1.00 - 1.50 | 0.00 | 0.00 | 1.16 |
| Red | 15.65 | 13.09 - 19.63 | N/A | N/A | 31.99 | 32.34 | 1.08 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.83

## Threshold

Threshold (FSC): 12081

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments

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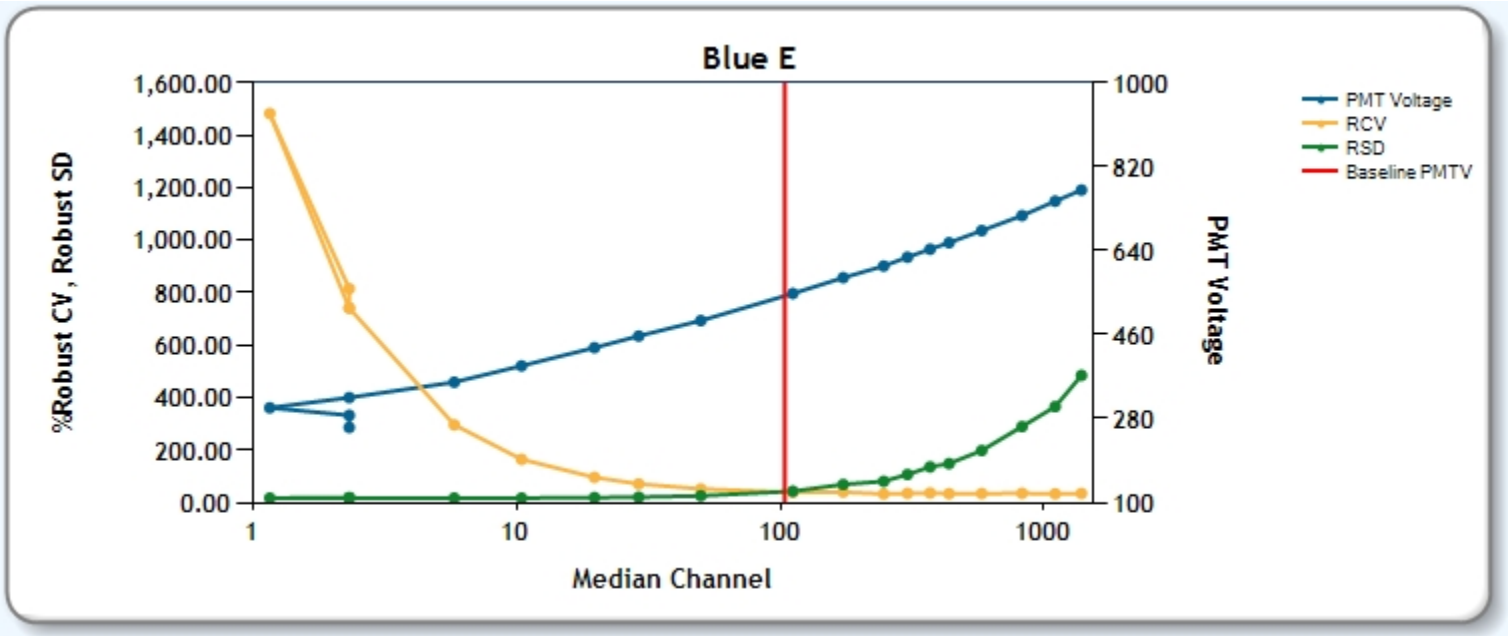
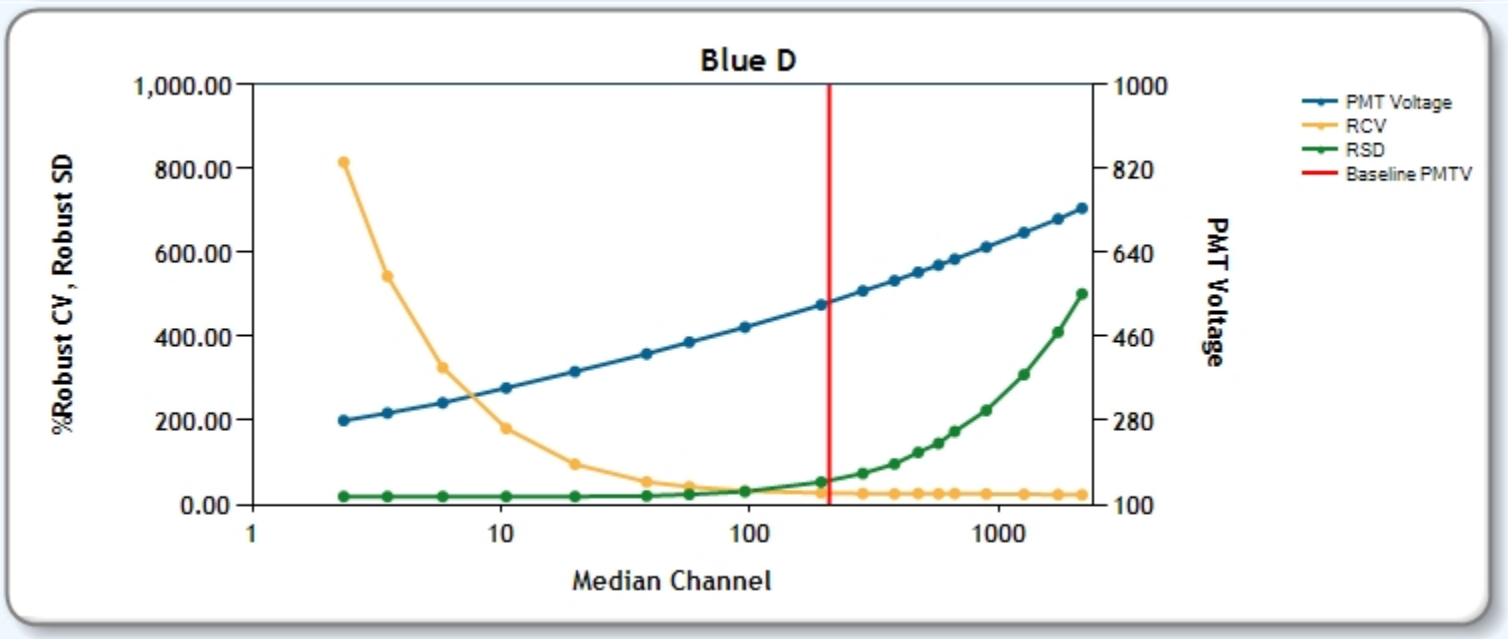
## PMTV Optimization Results



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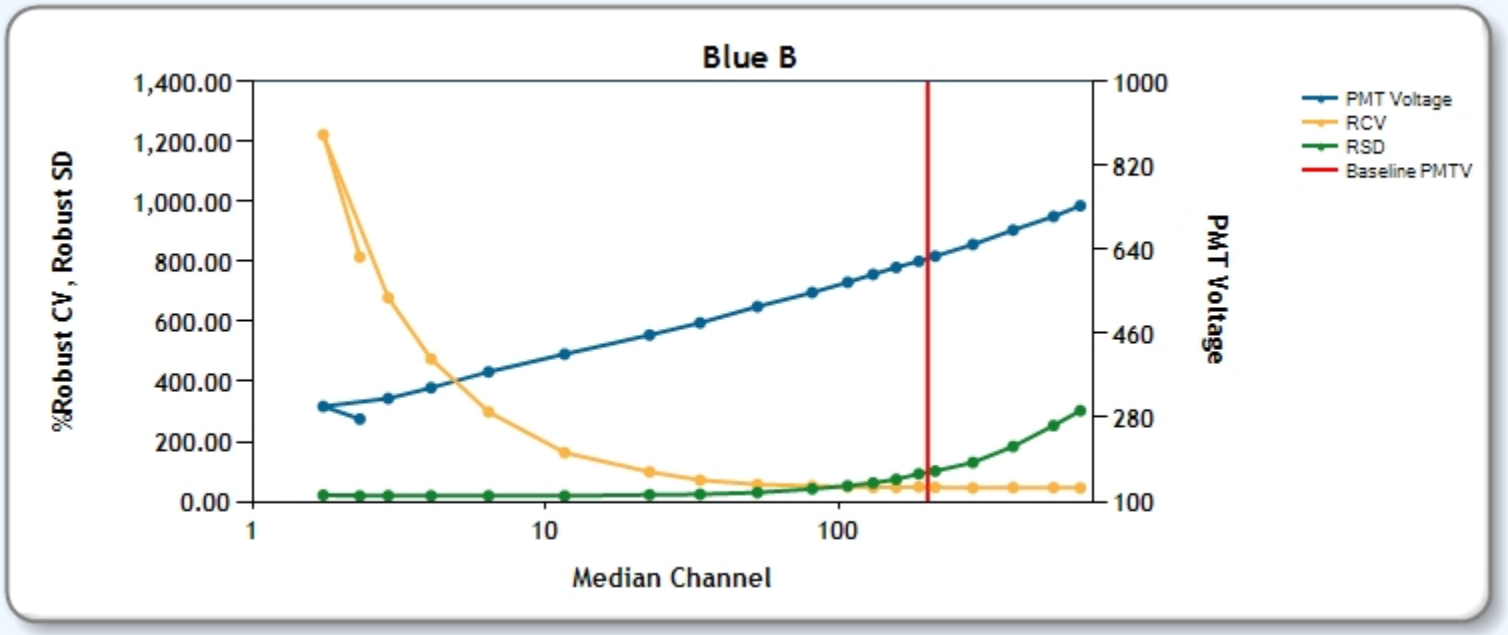


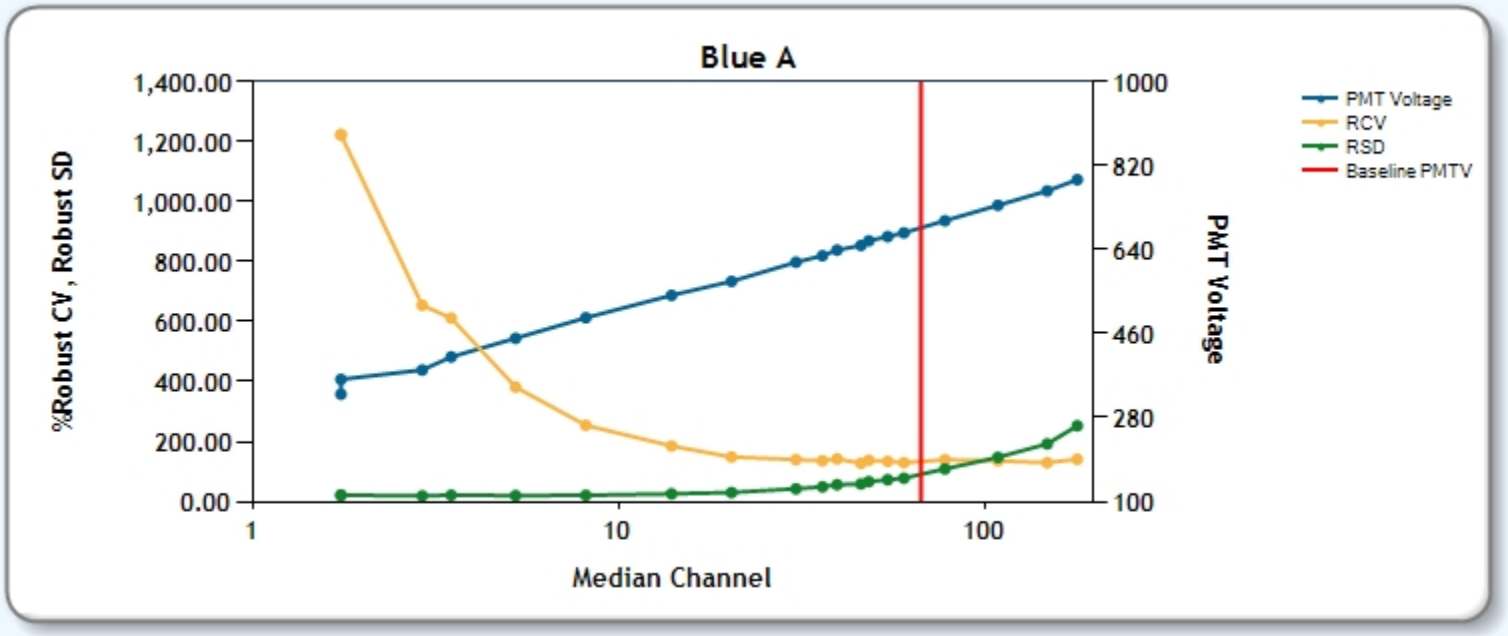

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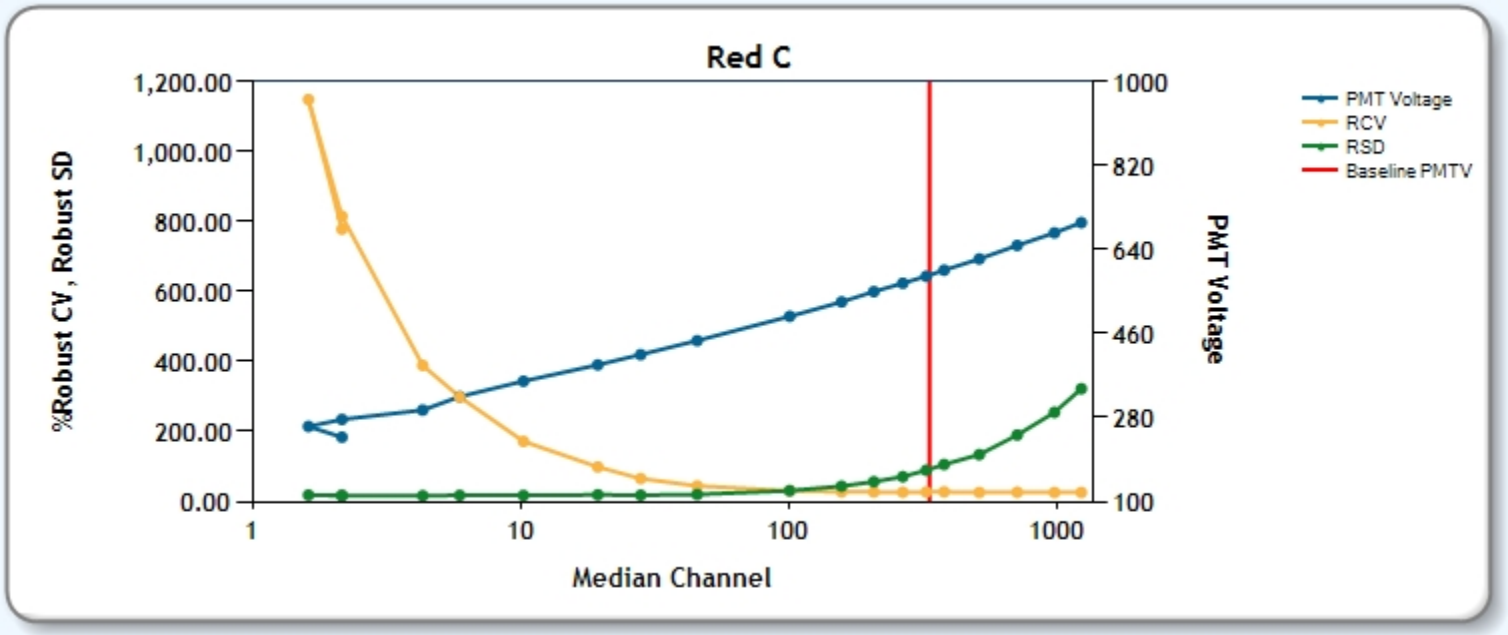


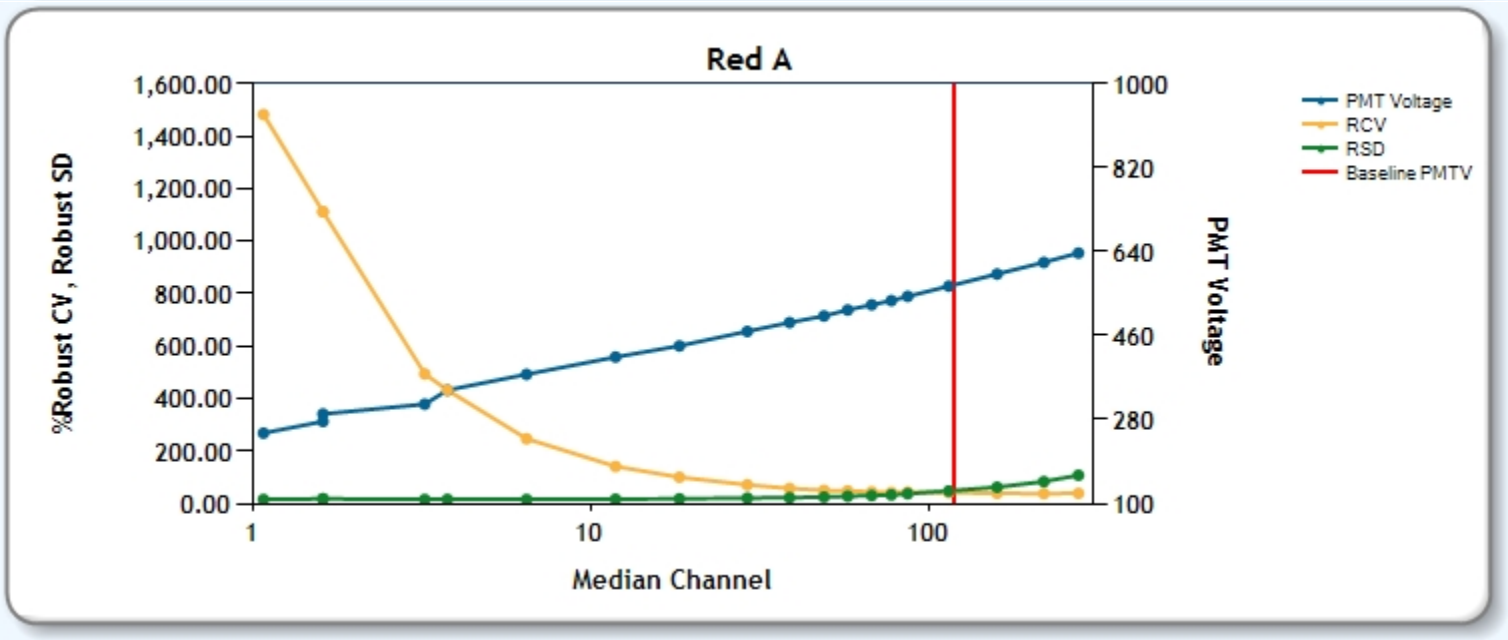

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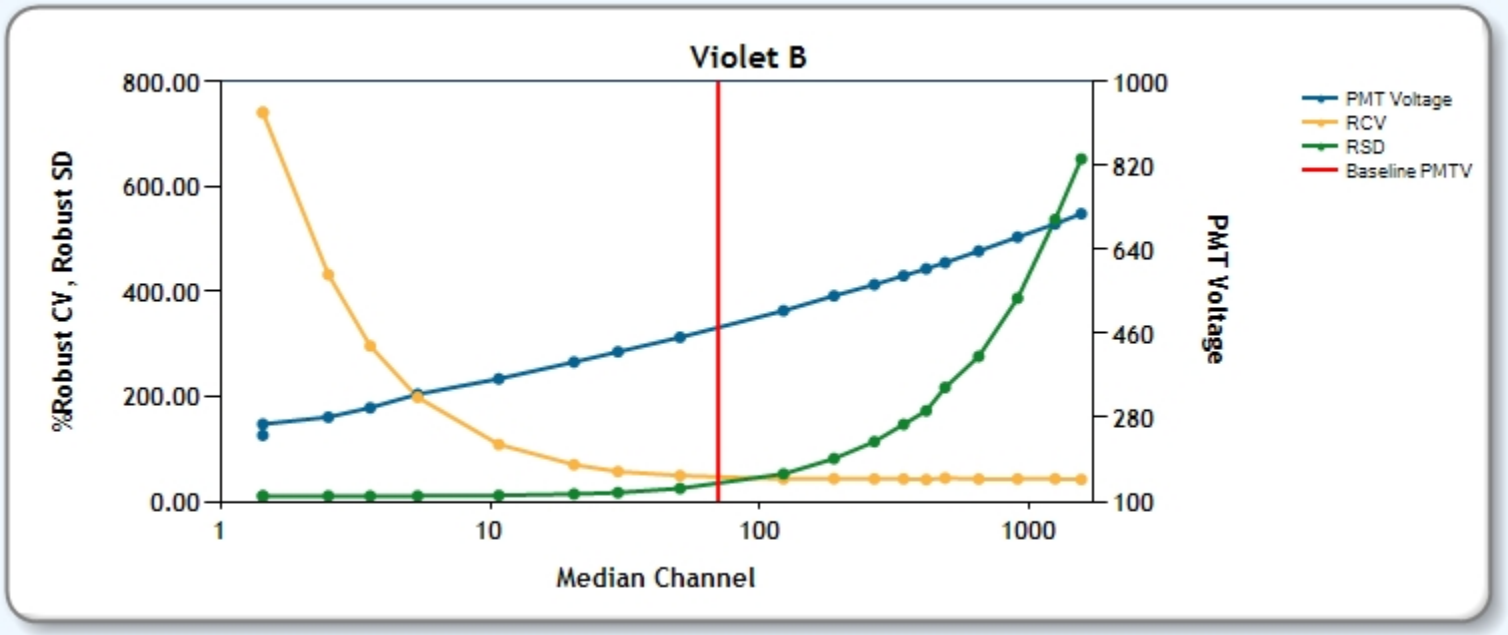


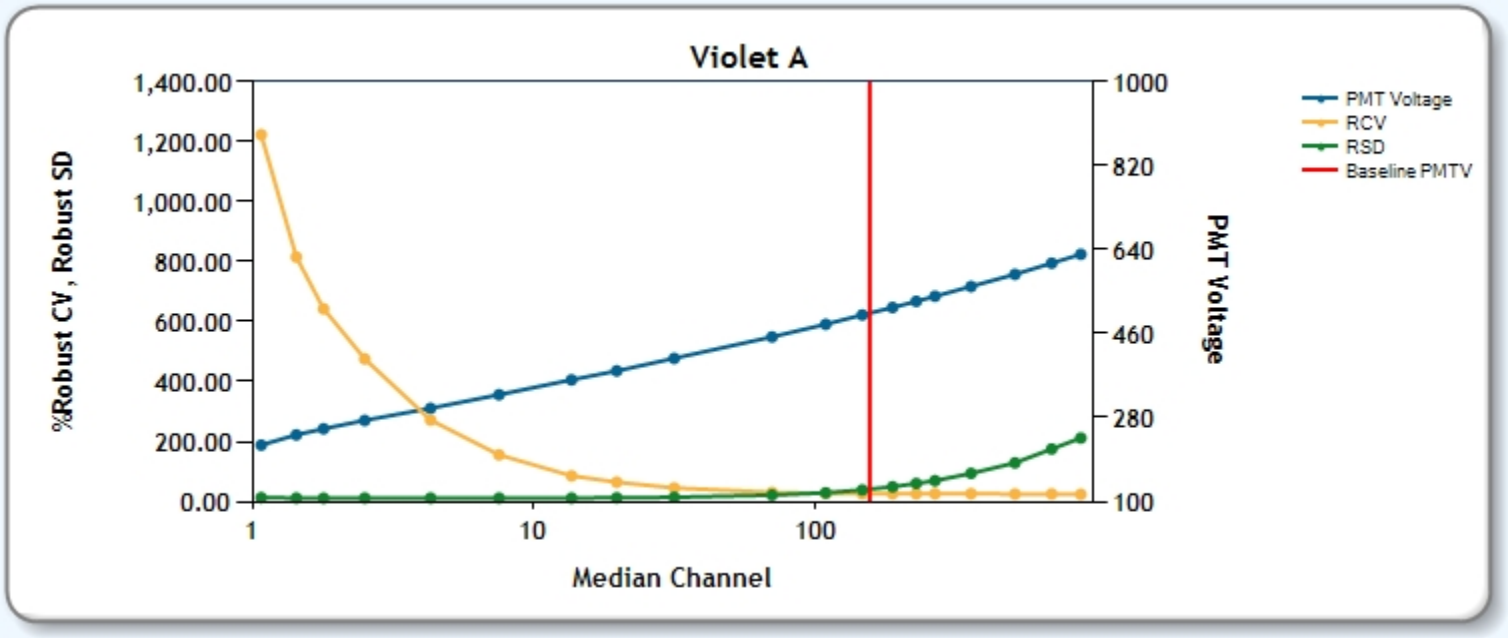

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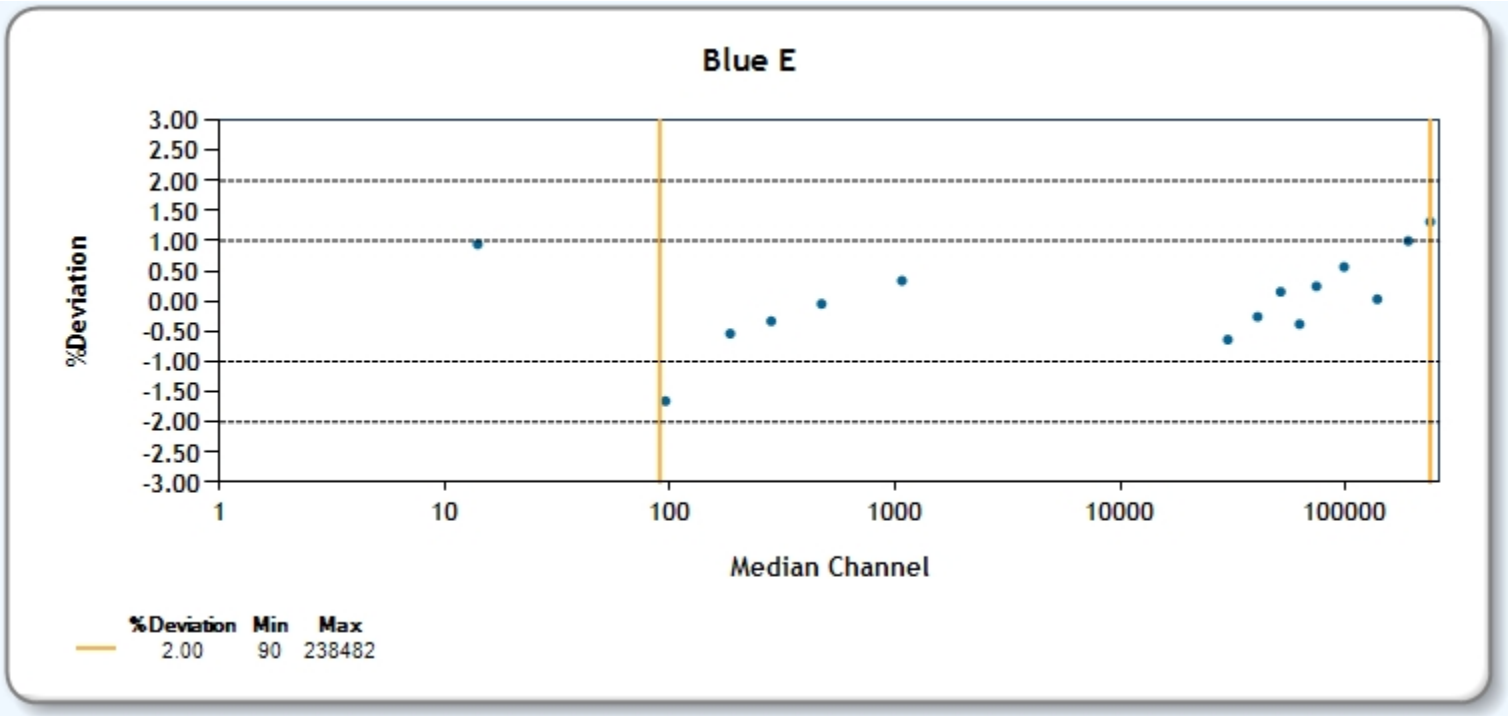
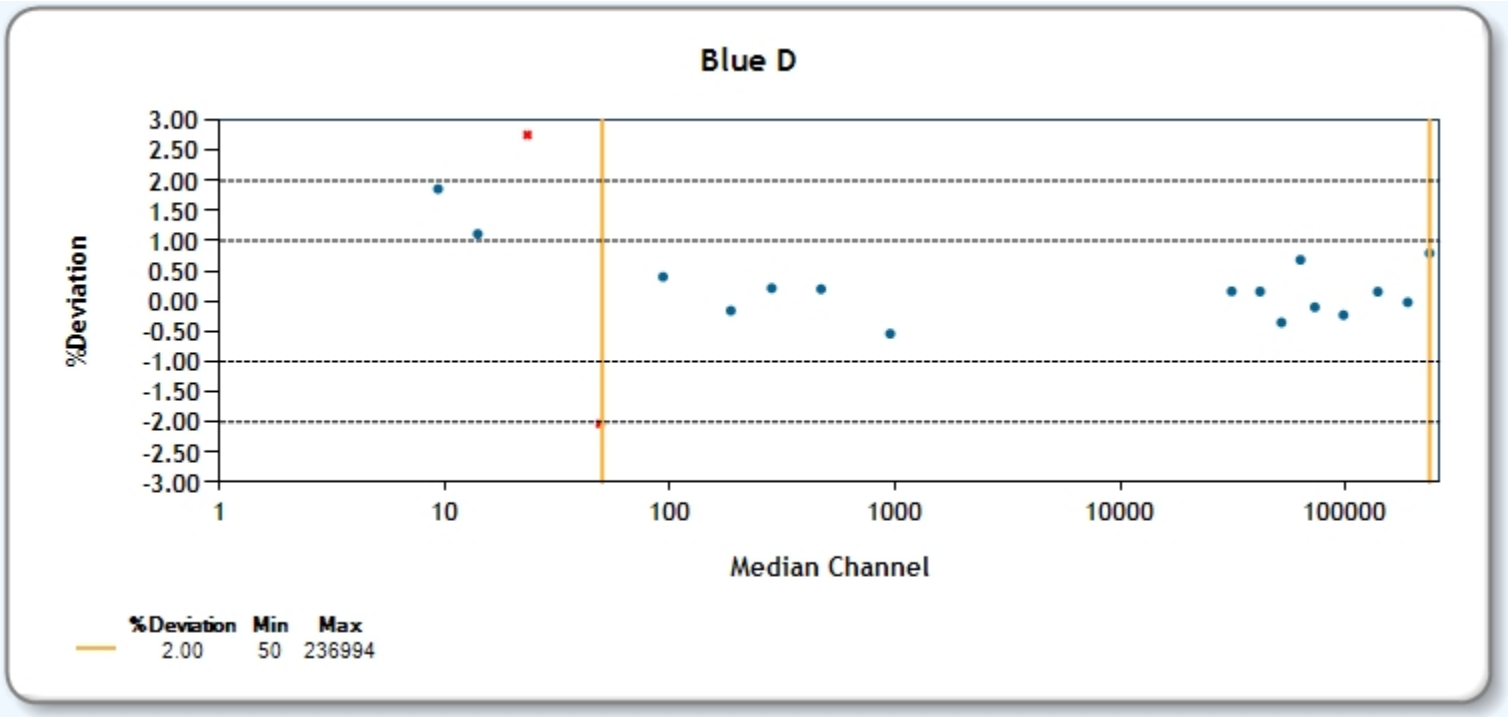
## Linearity Results



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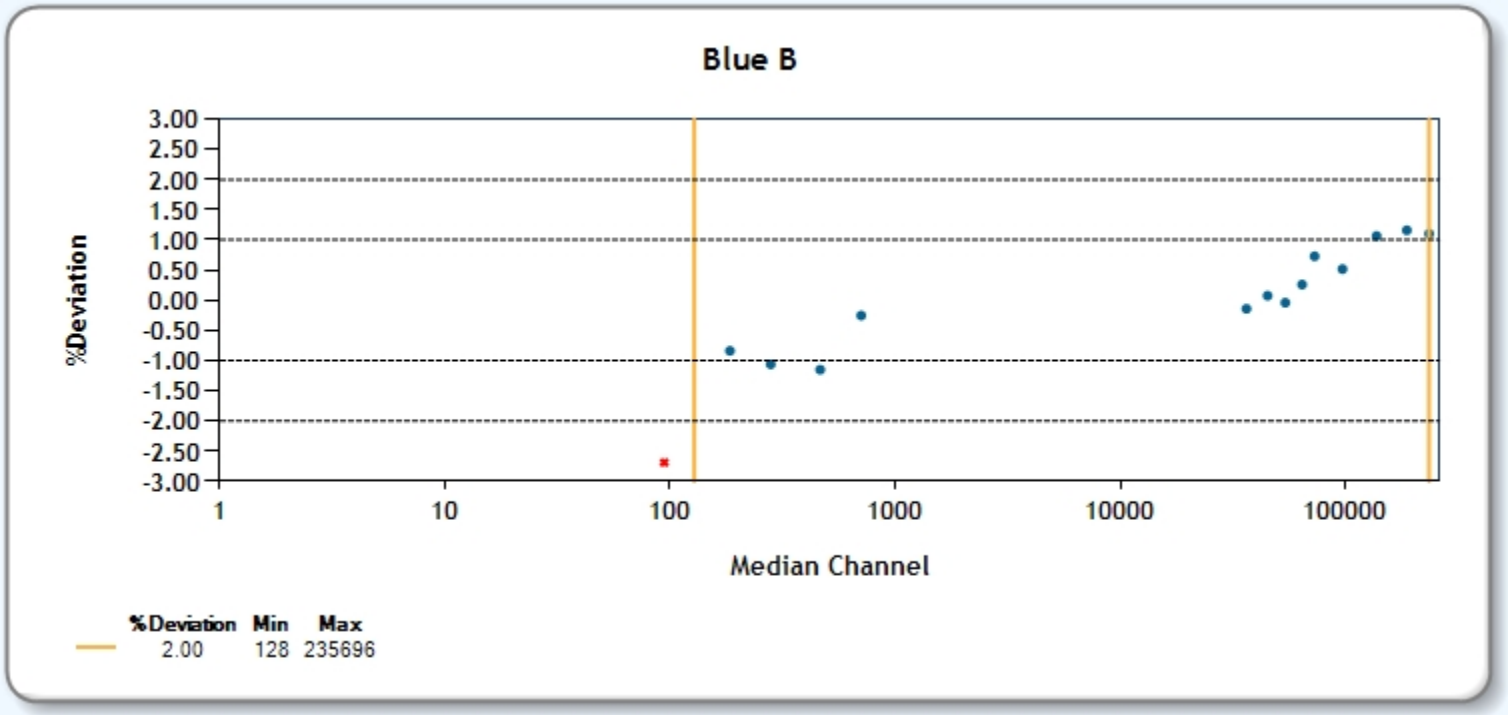


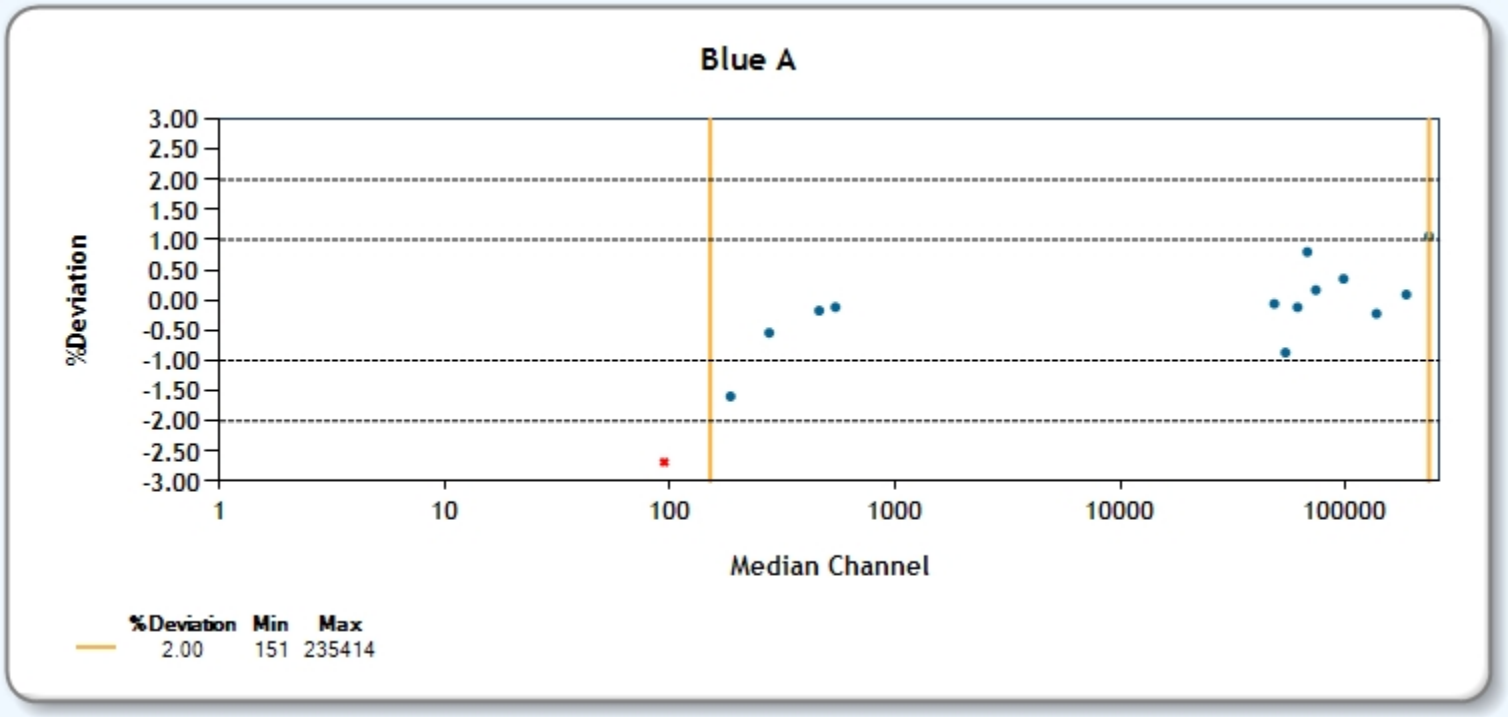

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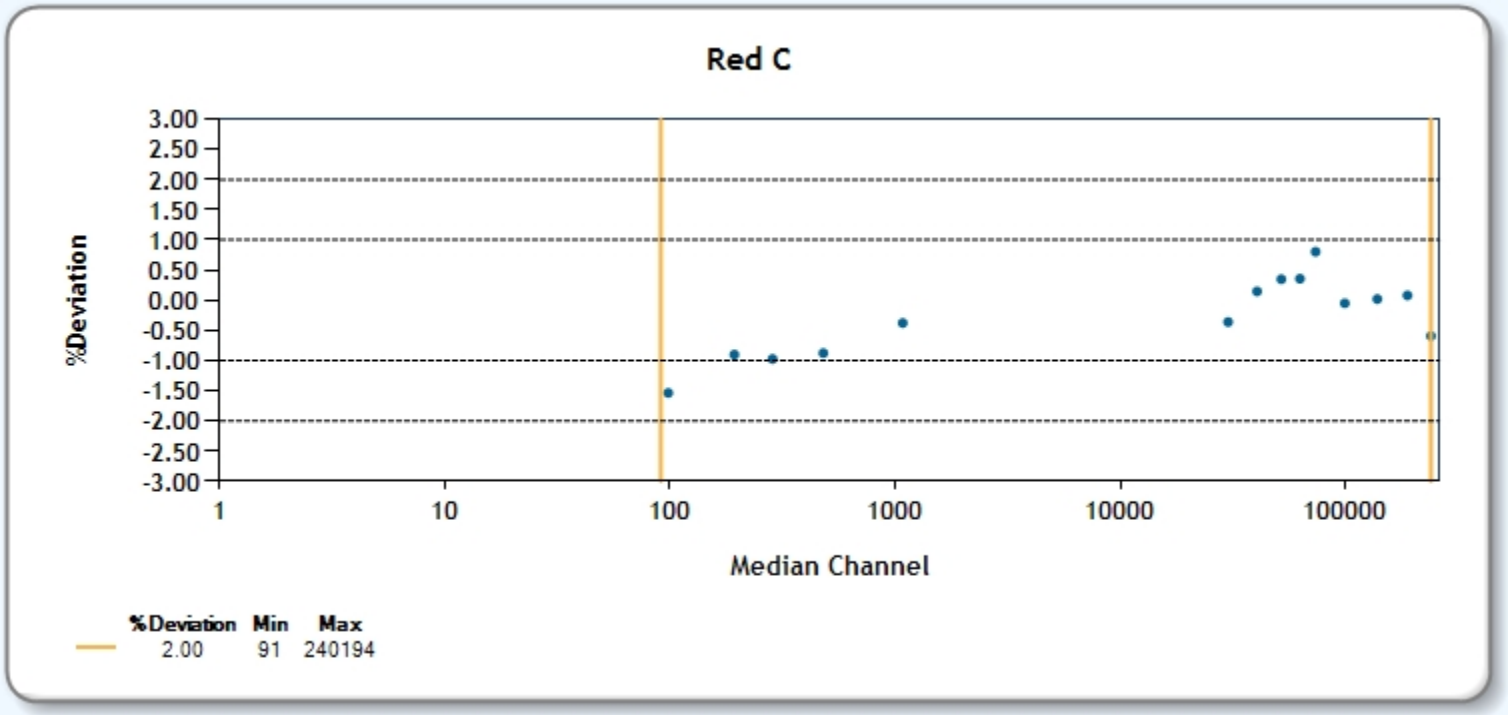


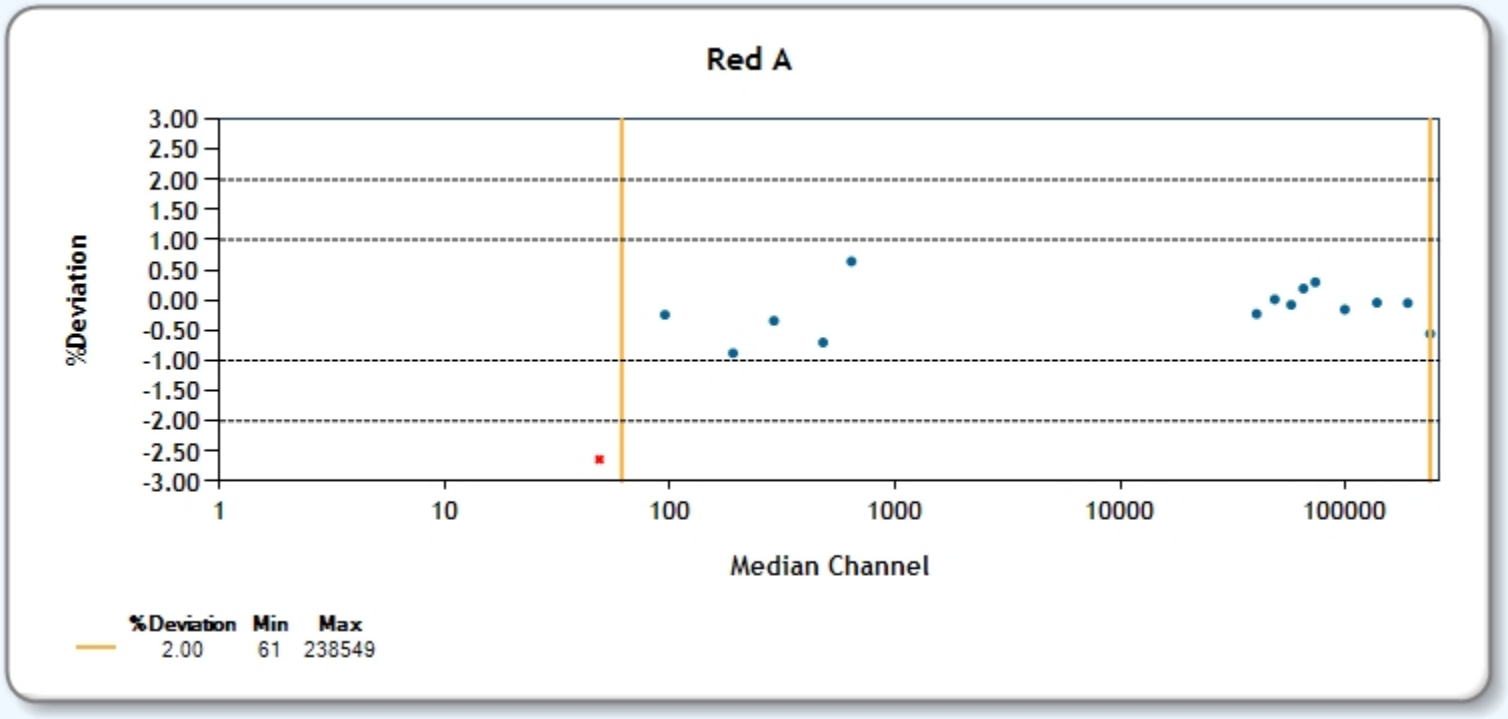

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